

### **ABSTRACT OF THE DISCLOSURE**

The invention provides methods for the detection and quantification of AKT proteins and their activation states in cells or tissue samples. Specifically, the invention provides methods for the detection and quantification of AKT1 or AKT2 proteins or their  
5 activated derivatives by combining immunohistochemical assays, calibrated by reference to other immunological, biochemical, or molecular biological assays, with an imaging system to quantify expression or activation levels of these proteins.